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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/580,160	05/30/2000	Vladimir Kostadinov	FOM-118.01	1358

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EXAMINER

MIRZA, ADNAN M

ART UNIT	PAPER NUMBER
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2141

DATE MAILED: 06/04/2004

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/580,160

Applicant(s)

KOSTADINOV, VLADIMIR

Examiner

Adnan M Mirza

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson et al (6,738,388) and Soltis et al (U.S. 6,693,804)

As per claims 1, 11, 15 Stevenson disclosed a method for modifying memory on at least one control device, from a remote host device (col. 8, lines 18-27), without interrupting the operation of the at least one control device, wherein the at least one control device and the host device are coupled through a Field bus communications network, the method comprising: transferring data from the host device to the at least one control device during unscheduled communications periods; storing the transferred data to respective inactive memory area (col. 21, lines 51-67 & col. 22, lines 1-29);

However Stevenson did not go in details redirecting at least one control instrument microprocessor, during an idle period of the at least one control device microprocessor, to execute the stored data in the inactive memory area.

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In the same field of endeavor Soltis disclosed the SCSI Mode and Mode select commands allow access to and modification of a SCSI-defined Device Locks mode page on the storage device (col. 25, lines 21-23). According to one aspect of the invention, the Mode sense and Mode Select commands are used for configuring the device locks on a storage device typically includes several SCSI-defined pages of configuration data (col. 25, lines 27-31).

It would have been obvious to one having ordinary skill in the art at the time of the invention was made to have incorporated the SCSI Mode and Mode select commands allow access to and modification of a SCSI-defined Device Locks mode page on the storage device. According to one aspect of the invention, the Mode sense and Mode Select commands are used for configuring the device locks on a storage device typically includes several SCSI-defined pages of configuration data as disclosed by Soltis in the method of Steveneson to increase the manageability of the available capacity of the disk drives and memory devices while in service in various data processing systems.

3. As per claim 2 Stevenson-Soltis comprising verifying the stored data in the respective inactive memory areas (Soltis, col. 22, lines 54-64).

4. As per claims 3,12 Stevenson-Soltis disclosed wherein redirecting at least one control device microprocessor comprises providing the at least one control device microprocessor with entry points to the stored data (Soltis, col. 20, lines 7-23).

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5. As per claim 4 Stevenson-Soltis disclosed wherein transferring data further comprises transmitting entry points (Soltis, col. 20, lines 7-23).
6. As per claim 5 Stevenson-Soltis disclosed wherein transferring data further comprises transmitting executable instructions (Stevenson, col. 27, lines 52-65).
7. As per claim 6 Stevenson-Soltis disclosed wherein transferring data further comprises synchronizing data transmissions between the host device and the control devices to avoid interference with scheduled communications (Stevenson, col. 15, lines 34-43).
8. As per claims 7,18 Stevenson-Soltis disclosed selecting the respective at least one active memory area; and, inactivating the selected active memory area such that the microprocessor does not execute data in the selected active memory area (Soltis, col. 22, lines 47-50).
9. As per claims 8,16 Stevenson-Soltis disclosed wherein redirecting the microprocessor further comprises issuing an upgrade request from the host device to the at least one control device (Soltis, col. 21, lines 25-28).
10. As per claims 9,17 Admas-Soltis disclosed wherein issuing an upgrade request comprises coordinating at least one upgrade command from the host device to the at least one control device (Soltis, col. 21, lines 25-35).

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11. As per claim 10 Stevenson-Soltis disclosed wherein redirecting the microprocessor further comprises: monitoring at least one parameter; and, communicating a command to redirect the at least one control device microprocessor when the parameter attains a specified value (Soltis, col. 17, lines 55-62).

12. As per claim 13 Stevenson-Soltis disclosed wherein the at least one control device microprocessor comprises a memory verification module (Stevenson, col. 3, lines 50-67).

13. As per claim 14 Stevenson-Soltis disclosed wherein: the at least one active memory area comprises flash memory; and, the at least one inactive memory area comprises flash memory (Stevenson, col. 20, lines 30-50).

Applicant's arguments are as follows:

14. Applicant argued that prior art did not disclose two or more microprocessor controlled devices and also writing and/or storing to an inactive memory area during a microprocessor idle period.

As to applicant's argument Soltis disclosed SCSI Mode and Mode select commands allow access to and modification of a SCSI-defined Device Locks mode page on the storage device (col. 25, lines 21-23). One ordinary skill in the art at the time of the invention can interrupt the SCSI device as control device with microprocessor.

15. Applicant argued that prior art did not show motivation to combine references.

As to applicants argument Soltis disclosed in the method of Stevenson server based architecture that help maintaining for controlling access to shared storage devices and make it more fault tolerant. The above statement will serve as an obvious statement to combine the two prior arts.

Conclusion

16. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (703)-305-4633.

17. The examiner can normally be reached on Monday to Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dharia Rupal can be reached on (703)-305-4003. The fax for this group is (703)-746-7239.

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18. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703)-746-7239 (For Status Inquiries, Informal or Draft Communications, please label "PROPOSED" or "DRAFT");

(703)-746-7239 (For Official Communications Intended for entry, please mark "EXPEDITED PROCEDURE"),

(703)-746-7238 (For After Final Communications).

19. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

Any response to a final action should be mailed to:

BOX AF

Commissioner of Patents and Trademarks Washington, D.C.20231


Or faxed to:

Hand-delivered responses should be brought to 4th Floor Receptionist, Crystal Park II,
2021 Crystal Drive, Arlington, VA 22202.

AM

Adnan Mirza

Examiner


RUPAL DHARIA
SUPERVISORY PATENT EXAMINER